amost g

SEQUENCE LISTING

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ttt gta ggt ta Phe Val Gly Ty 2	r Lys Leu	agg cag Arg Gln	aag ggt Lys Gly 25	tat gtc Tyr Val	tgt gga Cys Gly 30	gct ggc Ala Gly	96
ccc ggg gag gg Pro Gly Glu Gl 35	c cca gca y Pro Ala	gct gac Ala Asp 40	ccg ctg Pro Leu	cac caa His Gln	gcc atg Ala Met 45	cgg gca Arg Ala	144
gct gga gat ga Ala Gly Asp Gl 50	g ttc gag u Phe Glu	acc cgc Thr Arg 55	ttc cgg Phe Arg	cgc acc Arg Thr 60	ttc tct Phe Ser	gat ctg Asp Leu	192
gcg gct cag ct Ala Ala Gln Le 65	g cat gtg u His Val 70	acc cca Thr Pro	ggc tca Gly Ser	gcc cag Ala Gln 75	caa cgc Gln Arg	ttc acc Phe Thr 80	240
cag gtc tcc ga Gln Val Ser As	c gaa ctt p Glu Leu 85	ttt caa Phe Gln	ggg ggc Gly Gly 90	Pro Asn	tgg ggc Trp Gly	cgc ctt Arg Leu 95	288
gta gcc ttc tt Val Ala Phe Pl	t gtc ttt e Val Phe	ggg gct Gly Ala	gca ctg Ala Leu 105	tgt gct Cys Ala	gag agt Glu Ser 110	gtc aac Val Asn	336
aag gag atg ga Lys Glu Met G 115	a cca cto	gtg gga Val Gly 120	caa qtq	r cag gag . Gln Glu	tgg atg	gtg gcc Val Ala	384
tac ctg gag a Tyr Leu Glu T 130	eg egg etg ir Arg Leu	gct gac Ala Asp 135	tgg ato	cac ago His Ser 140	ser Gry	ggc tgg Gly Trp	432
gcg gag ttc a Ala Glu Phe T 145	ca gct cta nr Ala Leu 150	ı Tyr Gly	gac ggg	g gcc ctg y Ala Leu 155	gag gag ı Glu Glu	gcg cgg Ala Arg 160	480
cgt ctg cgg g Arg Leu Arg G	ag ggg aac lu Gly Asn 165	tgg gca Trp Ala	tca gto Ser Val	L Arg Thi	a gtg ctg Val Leu	acg ggg Thr Gly 175	528
gcc gtg gca c Ala Val Ala L 1	tg ggg gcc eu Gly Ala 80	c ctg gta a Leu Val	act gta Thr Vai	a ggg gco l Gly Ala	c ttt ttt a Phe Phe 190	HIA DEL	576
aag tgaa Lys							583

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cct Pro	ggg Gly	gaa Glu 35	ggc	cca Pro	gcc Ala	gcc Ala	gac Asp 40	ccg Pro	ctg Leu	cac His	caa Gln	gcc Ala 45	atg Met	cgg Arg	gct Ala	144
gct Ala	gga Gly 50	gac Asp	gag Glu	ttt Phe	gag Glu	acc Thr 55	cgt Arg	ttc Phe	cgc Arg	cgc Arg	acc Thr 60	ttc Phe	tct Ser	gac Asp	ctg Leu	192
gcc Ala 65	gct Ala	cag Gln	cta Leu	cac His	gtg Val 70	acc Thr	cca Pro	ggc Gly	tca Ser	gcc Ala 75	cag Gln	caa Gln	cgc Arg	ttc Phe	acc Thr 80	240
cag Gln	gtt Val	tcc Ser	gac Asp	gaa Glu 85	ctt Leu	ttc Phe	caa Gln	ggg ggg	ggc Gly 90	cct Pro	aac Asn	tgg Trp	ggc Gly	cgt Arg 95	ctt Leu	288
gtg Val	gca Ala	ttc Phe	ttt Phe 100	gtc Val	ttt Phe	Gly ggg	gct Ala	gcc Ala 105	ctg Leu	tgt Cys	gct Ala	gag Glu	agt Ser 110	gtc Val	aac Asn	336
aaa Lys	gaa Glu	atg Met 115	Glu	cct	ttg Leu	gtg Val	gga Gly 120	caa Gln	gtg Val	cag Gln	gat Asp	tgg Trp 125	atg Met	gtg Val	gcc Ala	384
tac Tyr	ctg Leu 130	Glu	aca Thr	. cgt . Arg	ctg Leu	gct Ala 135	Asp	tgg Trp	atc Ile	cac His	agc Ser 140	ser	ggc	ggc	tgg Trp	432
gcg Ala 145	Glu	tto Phe	aca Thr	gct Ala	cta Leu 150	Tyr	ggg	gac Asp	ggg	gcc Ala 155	Leu	gag Glu	gag Glu	gca Ala	cgg Arg 160	480
cgt Arg	ctg Lei	g cgg i Arg	g gag g Glu	ggg Gly 165	Asr	tgg Trp	gca Ala	tca Ser	gtg Val	. Arg	g aca g Thr	gtg Val	g ctg Lev	acg Thi	e Gly Gaga	528
gco Ala	g gtg a Val	g gca L Ala	a ctg a Lev 180	ı Gly	g gco 7 Ala	ctg Leu	gta Val	a act Thr 185	· val	ggg Gly	ATC	i Pine	ttt Phe 190	: WIG	agc a Ser	576
aaq Ly:	g tga	ā														582
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Me	1	a Th			5				Τ.	U					a Asp 5	
Ph	e Va		2	Λ				2.	5				3	U	a Gly	
Pr	o Gl	y Gl	u Gl	y Pr	o Al	a Al	a As	p Pr	o Le	u Hi	s Gl	n Al	a Me	t Ar	g Ala	

		25					40					45			
Ala G		35 Asp	Glu :	Phe (Glu '			Phe	Arg	Arg	Thr 60	Phe	Ser .	Asp	Leu
Ala A	50 Ala	Gln	Leu :	His '		55 Thr	Pro	Gly	Ser	Ala 75		Gln	Arg	Phe	Thr 80
65 Gln V	/al	Ser	Asp		70 Leu	Phe	Gln	Gly	Gly 90		Asn	Trp	Gly	Arg 95	Leu
Val A	Ala	Phe		85 Val	Phe	Gly	Ala	Ala 105		Cys	Ala	Glu	Ser 110		Asn
Lys (100 Glu	Pro	Leu	Val	Gly 120		Val	Gln	Asp	Trp 125		Val	Ala
Tyr 1	Leu	115 Glu	Thr	Arg	Leu	Ala 135	Asp	Trp	Ile	His	Ser		Gly	Gly	Trp
Ala	130 Glu	Phe	Thr		Leu 150	Tyr	Gly	Asp	Gly	Ala 155		Glu	Glu	Ala	Arg 160
145 Arg	Leu	Arg	Glu	Gly 165	Asn	Trp	Ala	Ser	Val 170		Thr	Val	Leu	Thr 175	Gly
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Lys			180					100							
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Phe	Val	Gly	Tyr 20	Lys	Leu	Arg	Gln	Lys 25	Gly	Tyr	· Val	Cys	Gly 30	Ala	Gly
Pro	Gly	Glu 35	Gly	Pro	Ala	Ala	Asp 40		Leu	His	Gln	Ala 45	Met	Arg	Ala
Ala	Gly 50	Asp	Glu	Phe	Glu	Thr 55		Phe	Arg	Arg	Thr 60	Phe	Ser	Asp	Leu
Ala 65	Ala	Gln	Leu	His	Val 70	Thr	Pro	Gly	, Sei	Ala 75	a Glm	Gln	Arg	Phe	Thr 80
Gln	Val	Ser	Asp	Glu 85	Leu	Phe	Gln	Gly	7 Gly 90	y Pro	Asn	Trp	Gly	Arg 95	Leu
Val	Ala	Phe	Phe		Phe	Gly	/ Ala	105	ı Let	л Суя	s Ala	a Glu	Ser 110	Val	Asn
Lys	Glu	Met		Pro	Leu	. Va]	L Gl ₃		n Vai	l Glı	n Asp	7rp	Met	. Val	Ala
Tyr	Leu 130		1 Thr	Arg	Leu	Ala 135		Tr	o Ile	e Hi	s Sei 140	r Sei	Gly	Gly	Trp
Glu 145		Glı	ı Ala	Ile	Lys 150		a Aro	y Va	l Ar	g Gl [.] 15	u Met 5	t Glı	ı Glu	ı Glu	160
Glu	Lys	Let	ı Lys	Glu 165		ı Glı	n Ası	n Gl	u Va 17	1 G1 0	u Ly	s Glı	n Met	Asr 175	Met

Ser Pro Pro Pro Gly Asn Ala Gly Pro Val Ile Met Ser Leu Glu Glu 185 Lys Met Glu Ala Asp Ala Arg Ser Ile Tyr Val Gly Asn Val Asp Tyr

200

Gly Ala Thr Ala Glu Glu Leu Glu Ala His Phe His Gly Cys Gly Ser

Val Asn Arg Val Thr Ile Leu Cys Asp Lys Phe Ser Gly His Pro Lys

Gly Phe Ala Tyr Ile Glu Phe Ser Asp Lys Glu Ser Val Arg Thr Ser

Leu Ala Leu Asp Glu Ser Leu Phe Arg Gly Arg Gln Ile Lys Val Ile

Pro Lys Arg Thr Asn Arg Pro Gly Ile Ser Thr Thr Asp Arg Gly Phe

Pro Arg Ser Arg Tyr Arg Ala Arg Thr Thr Asn Tyr Asn Ser Ser Arg

Ser Arg Phe Tyr Ser Gly Phe Asn Ser Arg Pro Arg Gly Arg Ile Tyr

Arg Gly Arg Ala Arg Ala Thr Ser Trp Tyr Ser Pro Tyr 330

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<213> Homo sapiens

Met Ala His Ala Gly Arg Thr Gly Tyr Asp Asn Arg Glu Ile Val Met <400> 11

Lys Tyr Ile His Tyr Lys Leu Ser Gln Arg Gly Tyr Glu Trp Asp Ala

Gly Asp Val Gly Ala Ala Pro Pro Gly Ala Ala Pro Ala Pro Gly Ile

Phe Ser Ser Gln Pro Gly His Thr Pro His Thr Ala Ala Ser Arg Asp

Pro Val Ala Arg Thr Ser Pro Leu Gln Thr Pro Ala Ala Pro Gly Ala

Ala Ala Gly Pro Ala Leu Ser Pro Val Pro Pro Val Val His Leu Thr

Leu Arg Gln Ala Gly Asp Asp Phe Ser Arg Arg Tyr Arg Arg Asp Phe

Ala Glu Met Ser Arg Gln Leu His Leu Thr Pro Phe Thr Ala Arg Gly 115 Arg Phe Ala Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu Ser Val Asn Arg Glu Met Ser Pro Leu Val Asp Asn Ile Ala Leu Trp 170 Met Thr Glu Tyr Leu Asn Arg His Leu His Thr Trp Ile Gln Asp Asn Gly Gly Trp Asp Ala Phe Val Glu Leu Tyr Gly Pro Ser Met Arg Pro Leu Phe Asp Phe Ser Trp Leu Ser Leu Lys Thr Leu Leu Ser Leu Ala Leu Val Gly Ala Cys Ile Thr Leu Gly Ala Tyr Leu Gly His Lys <210> 12 <211> 233 <212> PRT <213> Homo sapiens <400> 12 Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe Leu Ser Tyr Lys Leu Ser Gln Lys Gly Tyr Ser Trp Ser Gln Phe Ser Asp Val Glu Glu Asn Arg Thr Glu Ala Pro Glu Gly Thr Glu Ser Glu Met Glu Thr Pro Ser Ala Ile Asn Gly Asn Pro Ser Trp His Leu Ala Asp Ser Pro Ala Val Asn Gly Ala Thr Gly His Ser Ser Ser Leu Asp Ala Arg Glu Val Ile Pro Met Ala Ala Val Lys Gln Ala Leu Arg Glu Ala Gly Asp Glu Phe Glu Leu Arg Tyr Arg Arg Ala Phe Ser Asp Leu Thr Ser Gln Leu 105 His Ile Thr Pro Gly Thr Ala Tyr Gln Ser Phe Glu Gln Val Val Asn Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile Val Ala Phe Phe

Ser Phe Gly Gly Ala Leu Cys Val Glu Ser Val Asp Lys Glu Met Gln

Val Leu Val Ser Arg Ile Ala Ala Trp Met Ala Thr Tyr Leu Asn Asp

His Leu Glu Pro Trp Ile Gln Glu Asn Gly Gly Trp Asp Thr Phe Val

Glu Leu Tyr Gly Asn Asn Ala Ala Glu Ser Arg Lys Gly Gln Glu

Arg Phe Asn Arg Trp Phe Leu Thr Gly Met Thr Val Ala Gly Val Val 215

Leu Leu Gly Ser Leu Phe Ser Arg Lys 230

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<213> Homo sapiens

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Glu Val Phe Arg Ser Tyr Val Phe Tyr Arg His Gln Gln Glu Gln Glu

Ala Glu Gly Val Ala Ala Pro Ala Asp Pro Glu Met Val Thr Leu Pro

Leu Gln Pro Ser Ser Thr Met Gly Gln Val Gly Arg Gln Leu Ala Ile

Ile Gly Asp Asp Ile Asn Arg Arg Tyr Asp Ser Glu Phe Gln Thr Met

Leu Gln His Leu Gln Pro Thr Ala Glu Asn Ala Tyr Glu Tyr Phe Thr

Lys Ile Ala Thr Ser Leu Phe Glu Ser Gly Ile Asn Trp Gly Arg Val

Val Ala Leu Leu Gly Phe Gly Tyr Arg Leu Ala Leu His Val Tyr Gln

His Gly Leu Thr Gly Phe Leu Gly Gln Val Thr Arg Phe Val Val Asp

Phe Met Leu His His Cys Ile Ala Arg Trp Ile Ala Gln Arg Gly Gly

Trp Val Ala Ala Leu Asn Leu Gly Asn Gly Pro Ile Leu Asn Val Leu 185 180

Val Val Leu Gly Val Val Leu Leu Gly Gln Phe Val Val Arg Arg Phe

Phe Lys Ser 210

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<211> 192

<212> PRT

<213> Homo sapiens

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Met Asp Gly Ser Gly Glu Gln Pro Arg Gly Gly Pro Thr Ser Ser

Glu Gln Ile Met Lys Thr Gly Ala Leu Leu Leu Gln Gly Phe Ile Gln

Asp Arg Ala Gly Arg Met Gly Glu Ala Pro Glu Leu Ala Leu Asp

Pro Val Pro Gln Asp Ala Ser Thr Lys Lys Leu Ser Glu Cys Leu Lys

Arg Ile Gly Asp Glu Leu Asp Ser Asn Met Glu Leu Gln Arg Met Ile

Ala Ala Val Asp Thr Asp Ser Pro Arg Glu Val Phe Phe Arg Val Ala

Ala Asp Met Phe Ser Asp Gly Asn Phe Asn Trp Gly Arg Val Val Ala

Leu Phe Tyr Phe Ala Ser Lys Leu Val Leu Lys Ala Leu Cys Thr Lys

Val Pro Glu Leu Ile Arg Thr Ile Met Gly Trp Thr Leu Asp Phe Leu

Arg Glu Arg Leu Leu Gly Trp Ile Gln Asp Gln Gly Gly Trp Asp Gly

Leu Leu Ser Tyr Phe Gly Thr Pro Thr Trp Gln Thr Val Thr Ile Phe 170

Val Ala Gly Val Leu Thr Ala Ser Leu Thr Ile Trp Lys Lys Met Gly 185

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<212> PRT

<213> Homo sapiens

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Asp Ile Glu Gly Phe Val Val Asp Tyr Phe Thr His Arg Ile Arg Gln 15

Asn Gly Met Glu Trp His Glu Met Met Arg Val Met Gly Thr Ile Phe 30

Glu Lys Lys His Ala Glu Asn Phe Glu Thr Phe Cys Glu Gln Leu Leu

Ala Val Pro Arg Ile Ser Phe Ser Leu Tyr Gln Asp Val Val Arg Thr 50 55 60

Val Gly Asn Ala Gln Thr Asp Gln Cys Pro Met Ser Tyr Gly Arg Leu 65 70 75 80

Ile Gly Leu Ile Ser Phe Gly Gly Phe Val Ala Ala Lys Met Met Glu 85 90 95

Ser Val Glu Leu Gln Gly Gln Val Arg Asn Leu Phe Val Tyr Thr Ser 100 105 110

Leu Phe Ile Lys Thr Arg Ile Arg Asn Asn Trp Lys Glu His Asn Arg 115 120 125

Ser Trp Asp Asp Phe Met Thr Leu Gly 130 135

Gine